# Muck acceptance tests

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## 1 Introduction

Muck is a persistent in-memory JSON store with an HTTP API and advanced access control using signed JWT access tokens. This document presents its automated acceptance tests, using a (for now hypothetical) language similar to the Gherkin language implemented by Cucumber.

# 2 A happy path scenario

This scenario does some basic resource management via the Muck API.

Start Muck. This also sets up access to it for the user by getting an access token, which will be used for all requests.

given a running Muck

#### Check server status.

```
given I am tomjon
when I make request GET /status
then status code is 200
and response body is {"resources":0}
```

#### Create a simple resource. Remember its id.

```
when I make request POST /res with body {"foo":"bar"} then status code is 201 and response has header "Muck-Owner: tomjon" and resource id is remembered as ID and resource revision is remembered as REV1 when I make request GET /status then status code is 200
```

```
and response body is {"resources":1}
```

#### Retrieve the resource.

```
when I make request GET /res with header "Muck-Id: ${ID}" then status code is 200 and response body is { "foo": "bar" } and response has header "Muck-Id: ${ID}" and response has header "Muck-Revision: ${REV1}" and response has header "Muck-Owner: tomjon"
```

#### Make sure another user can't retreive, update, or delete the resource.

```
given I am verence
when I make request GET /res with header "Muck-Id: ${ID}"
then status code is 404
when I make request PUT /res
with header "Muck-Id: ${ID}" and
header "Muck-Revision: ${REV1}" and
body {"foo": "foobar"}
then status code is 404
when I make request DELETE /res with header "Muck-Id: ${ID}"
then status code is 404
```

#### Update the resource.

```
given I am tomjon
when I make request PUT /res with header "Muck-Id: ${ID}" and
header "Muck-Revision: wrong" and
body {"foo": "foobar"}
then status code is 400
when I make request PUT /res with header "Muck-Id: ${ID}" and
header "Muck-Revision: ${REV1}" and
body {"foo": "foobar"}
then status code is 200
and resource revision is remembered as REV2
```

Check the resource has been updated.

```
when I make request GET /res with header "Muck-Id: ${ID}" then status code is 200 and response body is {"foo": "foobar"} and response has header "Muck-Id: ${ID}" and response has header "Muck-Revision: ${REV2}" and response has header "Muck-Owner: tomjon"
```

#### Restart Muck. The resource should still exist.

```
when Muck is restarted
and I make request GET /res with header "Muck-Id: ${ID}"
then status code is 200
and response body is {"foo":"foobar"}
and response has header "Muck-Id: ${ID}"
and response has header "Muck-Revision: ${REV2}"
and response has header "Muck-Owner: tomjon"
```

# Search for the resource. First with a condition that is no longer true.

```
when I make request GET /search with body
{"cond": [{"where": "data", "field": "foo", "pattern": "bar", "op": "=="}]}
then status code is 200
and response body is {"resources": []}
```

#### Now search for the correct value.

```
when user tomjon makes request GET /search with body
{"cond": [{"where":"data","field":"foo","pattern":"foobar","op":"=="}]}
then status code is 200
and response body is {"resources": ["${ID}"]}
```

#### Delete the resource.

```
when user tomjon makes request DELETE /res with header "Muck-Id: ${ID}" then status code is 200 when user tomjon makes request GET /res with header "Muck-Id: ${ID}" then status code is 404
```

Restart Muck again. The resource should not exist.

# Muck acceptance tests

when Muck is restarted and user tomjon makes request GET /res with header "Muck-Id: fID" then status code is fID4

All done.